

**California Department of Water Resources  
Oroville Facilities Relicensing  
Draft Issue Statements, Geographic Scopes and Resource Goals  
Revised ~~May 16~~ June 11, 2001**

## **LAND USE**

### **Issue Statement LU1:**

What are the appropriate, compatible, and potential developmental and non-developmental uses of project lands especially for public use, public access, open space, recreational uses, watershed and natural resources protection/management, energy resources and cultural values in a way that integrates and respects: 1) resource constraints; 2) adjacent land uses; and 3) applicable plans (including the Forest Service, State, County, and City of Oroville land planning and zoning) and policies for project lands and adjacent lands?

### **Issues Addressed:**

LUE1: Develop more areas for recreation

LUE2: Develop land access to far north side of lake

LUE3: Increase communication on issues relating to present DWR land usage around the lake area so it shifts from unused to recreational or appropriate public use.

LUE6: Forbid industrial use of State recreation lands

LUE7: Preservation of open/natural areas/greenbelts

LUE8: There is an interest in integrating recreation opportunities provided by the reservoir with those that could occur on adjacent national forest system lands. Uses need to be complementary with no unmitigated impact on heritage resources, and little if any impact on aquatic and terrestrial wildlife habitat or vegetative productivity. Opportunities could include boat in camping sites, trails from the reservoir to points of scenic or other interest and improvement of existing road access to the reservoir.

LME9: What are the effects on the natural environment and economic return of commercial livestock grazing.

### **Existing Information:**

Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.

Butte County. 1996. Butte County General Plan. Oroville, California.

Chartkoff, J. and B.W. Ritter. 1966. A Preliminary Report on Archaeological Survey Work Done in the Oroville Reservoir Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

DPR (California Department of Parks and Recreation). 1973. Lake Oroville Resource Inventory, Cultural Heritage Division, Sacramento.

DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DPR. 1999. Index to Historic and Archaeological Resources Owned by the California Department of Parks and Recreation. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

FERC Form 80 Recreation Use Data.

Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

Jones and Stokes Associates. 1999. Archaeological Survey Report for the Proposed Feather River Bikeway Extension Phase II, Oroville, Butte County, California. MS on file at the Northeast Information Center, Department of Anthropology, California State University, Chico.

Longhurst, W.M. Garton, E.O., Heady, H.F., and G.E. Conolly. 1976. The California deer decline and possibilities for restoration. Ann. Meet. West. Sec. Wildlife Society (Fresno, CA) 1976: 74-103.

Mayer, K.E., and W.F. Laudenslayer Jr., eds. 1988. A guide to wildlife habitats in California. California Department of Fish and Game. 166 pp.

Office of Historic Preservation. 2000. Historic Properties Directory for Oroville.

Orlins, R.I. 1997. Cultural Resources Survey for Oroville Field Division Recreation Plan, Lime Saddle Campground. MS on file at the Department of Water Resources, Division of Environmental Services, Sacramento.

PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

Reynolds, F.L., Mills, T.J., Benthin, R., Low, A. 1993. Restoring Central Valley Streams: A Plan for Action.

Steinstra, T. 2000. California Recreational Lakes and Rivers Second Edition. Foghorn Outdoors, Avon Travel Publishing, Inc., Emeryville, California.

Statewide Comprehensive Outdoor Recreation Plan.

#### **Information Needed:**

Document existing recreational use.

Document recreational demand over term of next license.

Determine capacity and suitability of lands for recreational development.

Identify operational and access constraints.

Identify recreation objectives of relicensing participants.Consistency with federal, state, regional, and local recreation plans/guidelines.**Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary, contiguous properties, and other lands within 1/4 mile of the project boundaries.

**Resource Goals:**

1. Compliance of the Oroville Facilities with FERC regulations and orders.
2. Use of project lands in a way that is consistent with project objectives.
3. Use of project lands with consideration for consistency with the objectives of local plans and resource agency plans for the area as a whole and for the lands in the immediate vicinity of the project area.
4. Protection of areas with valuable natural, recreational and cultural resources.
5. Development of additional land uses including visitor access and recreational facilities on existing and new sites.
6. Siting of proposed land uses on project lands that considers objectives of local plans, and is consistent with sensitive resources, resource constraints, surrounding land uses, and linkages with the surrounding area's development pattern.
7. Encourage local agency to consider non-project land use impacts on project land uses, aesthetics, and environmental qualities when zoning land and considering approval development projects.
7. Utilize livestock grazing on project lands if appropriate to achieve land use and management objectives.

**Issue Statement LU2:**

What is the potential for acquiring or removing project lands (including other property interests) to meet resource goals?

**Issues Addressed:**

LUE4: Contact PG&E regarding property at Lime Saddle Marina, the 5 plus acres to add more parking available to public and add much needed road and entrance.

LUE5: Look at all PG&E lands adjacent to project.

LUE9: Potential for acquisition of federal lands (BLM and USFS) within project boundary by DWR.

LUE10: Potential for DWR to sell, for private development, some lands currently held by the State. This would get the lands back on tax rolls.

**Existing Information:**

Aerial photography.

Available land use mapping.

BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.

Butte County. 1996. Butte County General Plan. Oroville, California.

City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

### **Information Needed:**

Identify property actually needed for operation and maintenance and resources protection of the Project.

Identify land management objectives of relicensing participants.

Consistency with federal, state, regional, and local plans/guidelines.

Confirm existing ownership of lands.

Document existing land uses and management.

Document natural areas and sensitive resources (including wetlands and floodplains).

Identify recreation suitability of project lands.

### **Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary, contiguous properties, and other lands within ¼ mile of the project boundaries.

### **Resource Goals:**

1. Compliance of the Oroville Facilities with FERC regulations and orders.
2. Use of project lands and other lands that may be acquired in the project vicinity in a way that is consistent with project objectives.
3. Protection of lands contiguous to the project area that are strategically important for protecting valuable natural, recreational and cultural resources located within the project's current boundaries.
4. Incorporation of additional lands into the project area that are needed to provide for the development of new or expanded visitor and recreational facilities.

5. Acquisition or removal of lands including surplus lands within or nearby the project area after consideration for achievement of project operational goals, protection of resources or development of project visitor and recreational facilities and which have potential strategic importance as locations for development activities to meet community needs.

## LAND MANAGEMENT

### Issue Statement LM1:

What are the funding and staffing needs to adequately address land management for the Oroville Wildlife Area, Lake Oroville State Recreation Area (LOSRA), Thermalito Afterbay, and other project lands?

### Issues Addressed:

LME1: Evaluate existing facilities security. Lake security and fines – “user friendly”.

LME4: Are additional funds needed to augment the existing budget for the management of the Oroville Wildlife Area? Presently available Fish and Game funds are being dedicated to managing people and not wildlife habitat.

LME5: Are additional funds needed for law enforcement? Presently two-thirds of all the local game warden activities are spent on the Oroville wildlife area. An augmentation of funding for more wardens would free up time for other law enforcement activities outside of the wildlife area.

LME16: Provide an emergency boat for CDF

### Existing Information:

Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.

Bryan, C. Horbison. 1987. Socioeconomic Impacts of Red Man (Operation Bass) Tournaments: A Research Report. University of Alabama, Tuscaloosa.

Butte County. 1996. Butte County General Plan. Oroville, California.

California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.

City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

Dean Runyan Associates. 2000. Travel Impacts by County, 1992-1998. Prepared for the California Division of Tourism, Sacramento, CA. Sacramento, CA: Dean Runyan Associates.

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento.

DPR (California Department of Parks and Recreation). 1973. Lake Oroville Resource Inventory, Cultural Heritage Division, Sacramento.

DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

DWR. 1995. Lake Oroville Fisheries Habitat Improvement Plan. October.

DWR. 2000. 1999 Lake Oroville Annual Report of Fish Stocking and Fish Habitat Improvements, February.

Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.

Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

### **Information Needed:**

Document existing recreation facility staffing.

Document existing recreation facility funding.

Document existing recreational use.

Document recreational demand over term of next license.

Identify recreation objectives of relicensing participants.

Consistency with federal, state, regional, and local recreation plans/guidelines.

### **Geographic Scope:**

Areas included within the Oroville Wildlife Area, LOSRA, and Thermalito Afterbay and other project lands.

### **Resource Goals:**

1. Sufficient funding for full, fair and professional enforcement of the regulations at the Wildlife Area, LOSRA, and Thermalito Afterbay and, to protect and manage resources and assure public safety.
2. Sufficient funding to assure proper clean-up and facilities maintenance
3. Sufficient funding to maintain and enhance the habitat within the Oroville Wildlife Area and LOSRA. (may overlap with Environmental Work Group issues statements and resource goals)
4. Sufficient funding to maximize responsible public use and access consistent with protection of natural and cultural resources.

### **Issue Statement LM2:**

What are the existing and future fuel loads, fuel management practices, and coordination of fuel management activities for lands located within and adjacent to the project boundary to manage the risk of loss of property, lives, and natural resources?

### **Issues Addressed:**

LME6: Fuel load on state lands – potential impact to habitat (wildlife and human)

LME7: There is an interest in management of national forest system lands located within and adjacent to the project area within the framework of the Forest Plan Amendment EIS. Management could include establishment of Defensible Fuel Profile Zones, prescribed burning or other activities compatible with the EIS.

LME10: Consequences on natural environment and adjacent land of fuel loading (current fire management practices)

LME14: Evaluate fuel loading in areas within the project area, including land along the Feather River below Oroville Dam through the Long Bar area and land near the Diversion Dam.

### Existing Information:

BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.

Butte County. 1996. Butte County General Plan. Oroville, California.

California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.

City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

DFG (California Department of Fish and Game). 1995. Draft Plant List for the Oroville Wildlife management Area.

DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1983. Concerning the operation of the Oroville Division of the State Water Project for management of fish and wildlife. Department of Water Resources. Sacramento.

DWR. 1995. Lake Oroville Fisheries Habitat Improvement Plan. October.

DWR. 2000. 1999 Lake Oroville Annual Report of Fish Stocking and Fish Habitat Improvements, February.

Longhurst, W.M. Garton, E.O., Heady, H.F., and G.E. Conolly. 1976. The California deer decline and possibilities for restoration. Ann. Meet. West. Sec. Wildlife Society (Fresno, CA) 1976: 74-103.

Mayer, K.E., and W.F. Laudenslayer Jr., eds. 1988. A guide to wildlife habitats in California. California Department of Fish and Game. 166 pp.

Painter, R.E., L.H. Wixom, and S.N. Taylor. 1977. An evaluation of fish populations and fisheries in the post-Oroville project Feather River. Sacramento. California Department of Fish and Game-Anadromous Fisheries Branch.

PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

Reynolds, F.L., Mills, T.J., Benthin, R., A. 1993. Restoring Central Valley Streams: A Plan for Action.

Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.

CDF and SBF (California Department of Forestry and Fire Protection and State Board of Eorestry). 1999. The California Fire Plan

### **Information Needed:**

Identify areas at risk for loss of natural resources, property, or lives.

Document property and natural resources in areas at risk.

Document ongoing fuel management practices.

Identify existing cooperative fuel management efforts in region and elsewhere.

Identify opportunities for fuel management cooperation in Project area.

Confirm consistency of fuels management with existing management plans.

Assess resource effects of fuel management alternatives.

### **Geographic Scope:**

Area within the Oroville Facilities FERC project boundary, contiguous properties, and other lands within ¼ mile of the project boundaries.

### **Resource Goals:**

1. Development of a comprehensive understanding of fuel loads and fuel load issues on project lands and lands in the vicinity of the project area sufficient to identify risks, options, and a strategy for action.
2. In an integrated effort with appropriate agencies, manage fuel loads on project lands and on lands in the surrounding area to optimize for fire safety and the achievement of other objectives.

### **Issue Statement LM3:**

What is an appropriate arrangement for land management of recreation facilities of LOSRA, Thermalito Afterbay, Wildlife area and other project lands?

### **Issue Addressed:**

LME8: There is an interest by Plumas National Forest in reviewing the arrangement to defer recreation management to the California Department of Parks and Recreation for the purpose of determining whether to continue, modify or terminate this agreement. The arrangement if continued needs to be formally documented and updated to reflect current management direction.

### **Existing Information:**

Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.



Butte County. 1996. Butte County General Plan. Oroville, California.

California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.

City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

Dean Runyan Associates. 2000. Travel Impacts by County, 1992-1998. Prepared for the California Division of Tourism, Sacramento, CA. Sacramento, CA: Dean Runyan Associates.

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.

Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

Kalenik, M. 1981. Lake Oroville State Recreation Area Resource Inventory Cultural Resources Update. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

LNF (Lassen National Forest). 2000. Website. PG&E's campgrounds, fishing access and picnic areas. Website: [http://www.r5.fs.fed.us/lassen/lake\\_almanor.htm](http://www.r5.fs.fed.us/lassen/lake_almanor.htm). July 2000.

PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

Steinstra, T. 2000. California Recreational Lakes and Rivers Second Edition. Foghorn Outdoors, Avon Travel Publishing, Inc., Emeryville, California.

Stratton, George. 1991. Recreation Guide to California National Forests. Falcon Press Publishing Co. Helena, MT.

### **Information Needed:**

Document existing recreation facility staffing.

Document existing recreation facility funding.

Document existing recreational use.

Document recreational demand over term of next license.

Integrate recreation objectives of relicensing participants.

Consistency with federal, state, regional, and local recreation plans/guidelines.

**Geographic Scope:**

Area within the LOSRA, Thermalito Afterbay, Wildlife area, and adjacent lands,

**Resource Goals:**

1. Operation of the LOSRA, Thermalito Afterbay, and Wildlife area facilities in a way that will facilitate expansion of visitor and recreational facilities, be responsive to market demand, and provide a stimulus to further local economic development, and be compatible with applicable management objectives.
2. Operation of LOSRA, Thermalito Afterbay, and Wildlife area facilities in a way that will be efficient, responsive to visitor needs, and oriented toward increases in visitor numbers, visitor spending, and ~~and~~ visitor satisfaction with their experience and be compatible with applicable management objectives.
- 2.
3. Consider a written agreement between DPR and Plumas National Forest regarding the management of project lands within the Forest.

**Issue Statement LM4**

What are appropriate law enforcement activities, security and penalties for project lands?

**Issues Addressed:**

LME1: Evaluate existing facilities security. Lake security and fines – “user friendly”.

LME4: Are additional funds needed to augment the existing budget for the management of the Oroville Wildlife Area? Presently available Fish and Game funds are being dedicated to managing people and not wildlife habitat.

LME5: Are additional funds needed for law enforcement? Presently two-thirds of all the local game warden activities are spent on the Oroville wildlife area. An augmentation of funding for more wardens would free up time for other law enforcement activities outside of the wildlife area.

LME 6: Fuel load on state lands – potential impact to habitat (wildlife and human)

LME15: Install warning system for water releases.

**Existing Information:**

Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.

Butte County. 1996. Butte County General Plan. Oroville, California.

California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.

City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

Dean Runyan Associates. 2000. Travel Impacts by County, 1992-1998. Prepared for the California Division of Tourism, Sacramento, CA. Sacramento, CA: Dean Runyan Associates.

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

FERC Form 80 Recreational Use Data.

Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.

Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

Kalenik, M. 1981. lake Oroville State Recreation Area Resource Inventory Cultural Resources Update. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

LNF (Lassen National Forest). 2000. Website. PG&E's campgrounds, fishing access and picnic areas. Website: [http://www.r5.fs.fed.us/lassen/lake\\_almanor.htm](http://www.r5.fs.fed.us/lassen/lake_almanor.htm). July 2000.

PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

State Comprehensive Outdoor Recreation Plan.

Steinstra, T. 2000. California Recreational Lakes and Rivers Second Edition. Foghorn Outdoors, Avon Travel Publishing, Inc., Emeryville, California.

Stratton, George. 1991. Recreation Guide to California National Forests. Falcon Press Publishing Co. Helena, MT.

### **Information Needed:**

Document existing law enforcement funding.

Document existing law enforcement activities.

Identify existing and potential future law enforcement issues associated with the Project.

Document recreational demand over term of next license.

Identify management objectives of relicensing participants.

Consistency with federal, state, regional, and local management plans/guidelines.

### **Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary.

**Resource Goals:**

1. Full, fair and professional establishment, promulgation, and enforcement of regulations to protect project facilities and resources and assure public safety.

**AESTHETICS****Issue Statement A1:**

What are the effects of reservoir drawdown on the visual quality at Lake Oroville and other project lands?

**Issues Addressed:**

AE6: Lake levels sink too low in the summer – ‘bathtub ring’

AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.

**Existing Information:**

Aerial and other photography.

DWR (California Department of Water Resources) Initial Information Package Section 3.5 and associated information regarding reservoir levels.

California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.

PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.

Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.

Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.

U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.

**Information Needed:**

Identify operational constraints on aesthetics.

Identify key viewpoints for Project.

Document visual character of the project area, as seen from identified key viewpoints.

Identify opportunities for aesthetic enhancements.

Assess resource effects of potential aesthetic enhancements.

Assess opinions of various reservoir drawdown scenerios on aesthetics.

### **Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary.

### **Resource Goals:**

1. Develop and implement a program targeted to improve (to the extent feasible within the project purposes and operational, legal, and environmental constraints) the appearance of the areas that are negatively affected by the reservoir drawdown.

### **Issue Statement A2:**

What are the effects of construction debris, garbage, and invasive species on the appearance of project lands?

### **Issues Addressed:**

AE1: Need to establish debris collection program on regular schedule

AE2: Remove old railroad trestle and other debris from river.

AE3: Clean up shoreline, particularly adjacent to camping and public access areas. Use county prisoner-release programs, if necessary, to maintain clean shorelines.

AE4: Remove concrete and construction debris in Feather River including below the Fish Barrier dam, below the Table Mountain Bridge, below the Hwy 70 Bridge.

AE5: Dump areas used by DWR need to be removed.

AE15: Create work team to remove invasive, non-native plants (List A and B) from SWP and DWR areas.

### **Existing Information:**

DWR (California Department of Water Resources) Initial Information Package Section 3.5 and associated information regarding reservoir levels.

California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.

PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.

Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.

Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.

U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.

### **Information Needed:**

Document existing sources of debris and invasive plants, along with their effects on aesthetics (coordinate with Environmental Work Group).

Document existing debris removal and invasive plant management activities.

Identify opportunities to enhance aesthetics by removing debris and managing invasive plant species.

Assess resource effects of potential enhancement measures.

### **Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary.

### **Resource Goals:**

1. Develop and implement a program to clean up areas where there is litter and trash and to take appropriate actions that will help to minimize littering and illegal trash disposal in the future.
2. Develop a highly targeted program to remove or screen construction debris in visually sensitive areas where it substantially detracts from the aesthetic quality of the environment and the experience of visitors.

### **Issue Statement A3:**

What are the appropriate landscaping, restoration, preservation, vegetation and facilities management/maintenance programs for aesthetic enhancement of project lands?

### **Issues Addressed:**

AE10: Consider potential projects that could affect aesthetic nature of the project.

AE11: Day use park: water lines in the south side of the river between the Fish Barrier Dam and the Diversion Dam need to be installed to irrigate plantings

AE12: Native plant landscaping (potential sites: Feather River fish Hatchery, State Parks Headquarters, DWR Field Office, Spillway Launch Facility - future) and restoration of native plant communities.

AE13: Replace landscaping at the Feather River Fish Hatchery and adjacent river areas.

AE17: Effect of noise generated by project on aesthetics of environment.

AE14: Clean up old 'City' park adjacent to the north side of the Fish Barrier Dam, just north of the Fish Hatchery. Taken over by DWR when SWP was constructed, never re-opened. Provide picnic areas and restroom facilities. Turn over to City of Oroville.

AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.

**Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary.

**Resource Goals:**

1. Develop and implement a program to preserve and restore existing vegetation and landscaping and to manage and maintain facilities to assure a high level of visual attractiveness on project lands.

**Existing Information:**

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.

PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.

Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.

Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.

U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.

**Information Needed:**

Document existing landscaping, restoration, preservation, vegetation and facilities management/maintenance programs.

Identify opportunities to enhance aesthetics by landscaping, restoration, preservation, vegetation and facilities management/maintenance programs

Assess resource effects of potential enhancement measures.

**Issue Statement A4:**

What are the effects of existing and future project features (including transmission lines, trails, etc) and land uses on the-aesthetic quality of project lands?

**Issues Addressed:**

AE7: Camouflage the powerline towers

AE8: Improve poorly maintained visitor center

AE9: Expand use of "low impact" signs

AE10: Consider potential projects that could affect aesthetic nature of the project.

AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.

**Geographic Scope:**

Area within the Oroville Facilities FERC Project boundary.

**Resource Goals:**

1. Develop and implement a program to identify any existing project features that have significant adverse visual effects and consider proposals for strategic actions to modify or mitigate those impacts.
2. Establish design standards and a visual impact evaluation protocol to assure that changes to existing project facilities and any new facilities on project lands are sited and designed in a way that protects and enhances the project area's aesthetic qualities.
3. Establish a visual impact evaluation protocol and mitigation procedures to assure that any changes in land use or management activities are compatible with surrounding uses and protect and enhance the project area's aesthetic qualities.

**Existing Information:**

DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.

DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

**Information Needed:**

Identify any existing project features that have significant adverse visual effects and consider proposals for strategic actions to modify or mitigate those impacts.

Assess visual impacts to existing project facilities and any new facilities, and evaluate potential enhancement measures.

Assess visual impacts on any proposed changes in land use or management and evaluate potential enhancement measures.